STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

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In the matter of the investigation, on the Commission's own motion, into the electric supply reliability plans of Michigan's electric utilities for the years 2017 through 2021.	)))))	Case No. U-18197

ERRATA

The Commission's September 15, 2017 order in Case No. U-18197 inadvertently omitted the first three pages of the approved reporting form for electric providers to use to submit their capacity demonstrations within Attachment A to the order. The complete approved reporting form is therefore attached hereto as Attachment A.

MICHIGAN PUBLIC SERVICE COMMISSION

Kavita Kale
Its Executive Secretary

November 20, 2017
Lansing, Michigan

MICHIGAN PUBLIC SERVICE COMMISSION

Pursuant to the Order in Commission Case No.

U-18441

Entities are directed to use this form to submit a capacity demonstration of their ability to meet their customers' expected electric requirements during the four-year period of 2018 - 2021.

September 15, 2017

As directed by the Commission in the September 15, 2017 Order in Case No. U-18441, the attached exhibits will be filed by regulated electric utilities by December 1, 2017 in accordance to Commission order in Case No. U-18197. Subsequently, alternative electric suppliers, utility affiliates, municipal utilities, and power supply cooperatives and associations shall file by February 9, 2018 in accordance to Commission order in Case No. U-18197. Companies are encouraged to submit a written narrative, which will support the data provided in these tables. Submittal of this form does not necessarily ensure complete compliance with the requirements outlined in the Order; each company should be certain that their filing meets the full extent of the Order.

Notes

1. In addition to those requirements outlined by the Order, all filings should include:
   a. Discussion of any observed risks associated with mid-planning year retirement of generation assets.
   b. Discussion of the plan to meet any identified capacity shortfall.
   c. Discussion supporting the data provided in the attached tables.

2. Definitions of key line items are included as comments on the individual cell.

3. Please report all data in the units specified by the corresponding row/column.

4. Exhibits 1, 2, and 3 provide sample calculations, including formulae, used to derive the final result.
   a. Any deviation from the intended formulae should be noted and justified in the narrative of the filing.

5. Each company should file *either* Exhibit 1 or Exhibit 2. Exhibit 1 is designed for reporting bundled service utility peak demand. Exhibit 2 is designed for alternative energy supplier peak demand.

Case No: U-18441
Utility: _____
Date: _____
Exhibit 1: Peak Demand Bundled Service

Utility Bundled Service Peak Demand for the Lower Peninsula of Michigan

Actual and Forecast including Transmission Losses (MW)

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Sample Calc.	PY 2015-16	PY 2016-17	PY 2017-18	PY 2018-19	PY 2019-20	PY 2020-21	PY 2021-22
			Actual	Actual	Actual	Forecast	Forecast	Forecast	Forecast
	Peak Demand (MW)								
1	Service Territory, Coincident to Bundled	12,345							
2	Choice, Coincident to Bundled	1,234							
3	Bundled (line 1 - line 2)	11,111							
	Coincident to MISO Sys.Peak Demand (MW)								
4	Service Territory	12,098							
5	Choice	1,209							
6	Bundled (line 4 - line 5)	10,889							

* Totals carry to Sheet 3.
* Provide actual values where available.
* Assume current proportions of Bundled service and Choice service throughout the forecast period unless there is a known change in electric service provider.
* Do not adjust for Load Modifying Resources or Demand Response Programs. Those adjustments will be accounted for in Exhibit 3.

Utility Bundled Service Peak Demand for the Upper Peninsula of Michigan

Actual and Forecast including Transmission Losses (MW)

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Sample Calc.	PY 2015-16	PY 2016-17	PY 2017-18	PY 2018-19	PY 2019-20	PY 2020-21	PY 2021-22
			Actual	Actual	Actual	Forecast	Forecast	Forecast	Forecast
	Peak Demand (MW)								
7	Service Territory, Coincident to Bundled	12,345							
8	Choice, Coincident to Bundled	1,234							
9	Bundled (line 7 - line 8)	11,111							
	Coincident to MISO Sys.Peak Demand (MW)								
10	Service Territory	12,098							
11	Choice	1,209							
12	Bundled (line 10 - line 11)	10,889							

* Totals carry to Sheet 3.
* Provide actual values where available.
* Assume current proportions of Bundled service and Choice service throughout the forecast period unless there is a known change in electric service provider.
* Do not adjust for Load Modifying Resources or Demand Response Programs. Those adjustments will be accounted for in Exhibit 3.

Case No: U-18441
Utility: _____
Date: _____
Exhibit 2: Peak Demand AES

AES Peak Demand for the Lower Peninsula of Michigan

Actual and Forecast including Transmission Losses (MW)

Line	(a)	(b) Sample Calc.	(c) PY 2015-16 Actual	(d) PY 2016-17 Actual	(e) PY 2017-18 Actual	(f) PY 2018-19 Forecast	(g) PY 2019-20 Forecast	(h) PY 2020-21 Forecast	(i) PY 2021-22 Forecast
	Peak Demand (MW)								
1	LSE Peak Demand w/o Transmission Losses	1,234							
2	Load Diversity Factor	0.98							
3	Coincident Peak Demand (line 1 x line 2)	1,209							

* Totals carry to Sheet 3.
* Provide actual values where available.
* Do not adjust for Load Modifying Resources or Demand Response Programs. Those adjustments will be accounted for in Exhibit 3.

AES Peak Demand for the Upper Peninsula of Michigan

Actual and Forecast including Transmission Losses (MW)

Line	(a)	(b) Sample Calc.	(c) PY 2015-16 Actual	(d) PY 2016-17 Actual	(e) PY 2017-18 Actual	(f) PY 2018-19 Forecast	(g) PY 2019-20 Forecast	(h) PY 2020-21 Forecast	(i) PY 2021-22 Forecast
	Peak Demand (MW)								
4	LSE Peak Demand w/o Transmission Losses	1,234							
5	Load Diversity Factor	0.98							
6	Coincident Peak Demand (line 4 x line 5)	1,209							

* Totals carry to Sheet 3.
* Provide actual values where available.
* Do not adjust for Load Modifying Resources or Demand Response Programs. Those adjustments will be accounted for in Exhibit 3.

Attachment A

Case No: U-18441
Utility: _____
Date: _____
Exhibit 3: Planning Resources

Planning Reserve Margin Requirements and Planning Resources to be Acquired (UCAP MW)

Line	(a)	Sample Calc.	(b) PY 2018-2019	(c) PY 2019-2020	(d) PY 2020-2021	(e) PY 2021-2022
1	Forecasted Bundled (or AES) Non-Coincident Peak Demand, MW (from Ex. 1 or Ex. 2)	11,111				
2	Internal Demand Response Programs that are applied as an adjustment to the Peak forecast, MW	11				
3	Adjusted Forecasted Bundled (or AES) Non-Coincident Peak Demand, MW (line 1 - line 2)	11,100				
4	Load Diversity Factor coincident to MISO, %.	98.00%				
5	Adjusted Forecasted Bundled (or AES) Coincident Peak Demand, MW (line 3 x line 4)	10,878				
6	Transmission Losses, %	2.80%				
7	Adjusted Total Peak Demand, MW (line 5 -(line 5 x line 6))	10,573				
8	Applied Transmission Losses, MW (line 5 x line 6)	305				
9	Adjusted Total Peak Demand, MW (same as line 7)	10,573				
10	Planning Reserve Margin % UCAP Basis	7.10%	7.50%	7.30%	7.30%	7.40%
11	Total Planning Reserve Margin Requirement (expected reserves), UCAP MW ((line 8 + line 9) x (1 + line 10))	11,650				
12	Company Owned, In-State, Non-Intermittent, MW	8,890				
13	Company Owned, Out-of-State, Non-Intermittent, MW	120				
14	Company Owned, In-State, Intermittent, MW	660				
15	Company Owned, Out-of-State, Intermittent, MW	100				
16	Total Company Owned Generation, MW (line 12 + line 13 + line 14 + line 15)	9,770				
17	Load Modifying Resources, Treated as Capacity, MW	420				
18	Applied Transmission Losses, MW (line 17 x line 6)	12				
19	Total Qualified Demand Response Resources including PRM UCAP, MW ((line 17 + line 18) x (1 + line 10))	462				
20	PPA, In-State Intermittent Resource, MW	100				
21	PPA, Out-of-State Intermittent Resource, MW	200				
22	PPA, PURPA (BTMG), MW	26				
23	PPA, Intermittent (BTMG), MW	6				
24	Other Forward Capacity Contract, MW - In-State	220				
25	Other Forward Capacity Contract, MW - Out-of-State	0				
26	Total PPA, MW (line 20 + line 21 + line 22 + line 23 + line 24 + line 25)	552				
27	Total Planning Resources, MW (line 16 + line 19 + line 26)	10,784				
28	UCAP Surplus/(Shortfall), MW (line 27 - line 11)	(866)				

Attachment A

Case No: U-18441
Utility: _____
Date: _____
Exhibit 4: DR Program Resources

Demand Response - Capacity Resources

(a)	(b)	(c)	(d)	(e)
	Demand Response Program Name	**Demand Response Program (MW)**	**Credit Transmission Losses and PRM $_{UCAP}$(MW)**	**Total MW per Program Name**
PY 2018-UCAP				
Total Demand Response - Capacity Resources PY 2017-2018 (MW)				
PY 2019-UCAP				
Total Demand Response - Capacity Resources PY 2018-2019 (MW)				
PY 2020-UCAP				
Total Demand Response - Capacity Resources PY 2019-2020 (MW)				
PY 2021-UCAP				
Total Demand Response - Capacity Resources PY 2020-2021 (MW)				

* Expand each planning year section as necessary to accommodate all DR programs that are used as capacity resources.

Attachment A

Case No: U-18441
Utility: _____
Date: _____
Exhibit 5: Electric Generation List

Company Owned Electric Generation Resources

Line	(a) Electric Generation Unit Name	(b) Fuel or Renewable Type	(c) Specify: LRZ 2, LRZ 7, I&M, Other	(d) Located in Michigan (Y/N)	(e) If outside of MI, Contracted Trans Service (Y/N)	(f) P.A. 295 Resource (Y/N)	(g) ICAP (MW) 2018	(h) ICAP (MW) 2019	(i) ICAP (MW) 2020	(j) ICAP (MW) 2021	(k) UCAP (MW) 2018	(l) UCAP (MW) 2019	(m) UCAP (MW) 2020	(n) UCAP (MW) 2021
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* Add rows to accommodate all generating units as necessary.
* Please use UCAP data for ICAP columns for run-of-river hydroelectric power, wind power and solar power resources.

Attachment A

Case No: U-18441
Utility: _____
Date: _____
Exhibit 6: PPA Resource List

Generation Resources Under PPA or Other Capacity Contract

Line	(a) Electric Generator Name	(b) Fuel or Renewable Type	(c) Specify: LRZ 2, LRZ 7, I&M, Other	(d) Located in Michigan Y/N	(e) PA 295 Y/N	(f) PA 295 BTMG Y/N	(g) PURPA Y/N	(h) Other Bilateral PPA Y/N	(i) ICAP MW Contracted 2018	(j) 2019	(k) 2020	(l) 2021	(m) UCAP MW Contracted 2018	(n) 2019	(o) 2020	(p) 2021
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* Add rows to accommodate all generating units as necessary.

* Please use UCAP data for ICAP columns for run-of-river hydroelectric power, wind power and solar power resources.